

# How To Start Jupyter Notebooks

## Introduction:

Jupyter notebook is a web application which facilitates creating and sharing documents containing live code. Rather than writing or rewriting an entire program, you can write line of code and run them one at a time. Then, if you need to make a change, you can go back and make your edit and rerun the program again, all in the same window.

## Installing Jupyter Notebook using Anaconda and Conda

For new users, we highly recommend installing [Anaconda](https://www.anaconda.com/distribution/). Anaconda conveniently installs Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science.

Use the following installation steps:

- Download Anaconda. We recommend downloading Anaconda's latest Python 3 version (currently Python 3.7).  
URL: <https://www.anaconda.com/distribution/>



The screenshot shows the Anaconda Distribution website. At the top, there's a green banner with the text "Anaconda Distribution" and "The World's Most Popular Python/R Data Science Platform" with a "Download" button. Below this, there's a section titled "The open-source Anaconda Distribution is the easiest way to perform Python/R data science and machine learning on Linux, Windows, and Mac OS X. With over 15 million users worldwide, it is the industry standard for developing, testing, and training on a single machine, enabling individual data scientists to:" followed by a list of bullet points. To the right of the text is a grid of logos for various data science packages: Jupyter, Spyder, NumPy, SciPy, Numba, pandas, Dask, Bokeh, HoloViews, Datashader, matplotlib, Keras, H2O.ai, TensorFlow, and CONDA. Below the logos, there are icons for Windows, macOS, and Linux. The main content area is titled "Anaconda 2019.07 for Windows Installer" and features two download options: "Python 3.7 version" and "Python 2.7 version". Each option has a "Download" button and specifies the file size for 64-bit and 32-bit graphical installers.

**Anaconda Distribution**  
The World's Most Popular Python/R Data Science Platform [Download](#)

The open-source Anaconda Distribution is the easiest way to perform Python/R data science and machine learning on Linux, Windows, and Mac OS X. With over 15 million users worldwide, it is the industry standard for developing, testing, and training on a single machine, enabling individual data scientists to:

- Quickly download 1,500+ Python/R data science packages
- Manage libraries, dependencies, and environments with Conda
- Develop and train machine learning and deep learning models with scikit-learn, TensorFlow, and Theano
- Analyze data with scalability and performance with Dask, NumPy, pandas, and Numba
- Visualize results with Matplotlib, Bokeh, Datashader, and Holoviews

[jupyter](#) [spyder](#) [NumPy](#) [SciPy](#) [Numba](#)  
[pandas](#) [DASK](#) [Bokeh](#) [HoloViews](#) [Datashader](#)  
[matplotlib](#) [keras](#) [H2O.ai](#) [TensorFlow](#) [CONDA](#)

Windows | macOS | Linux

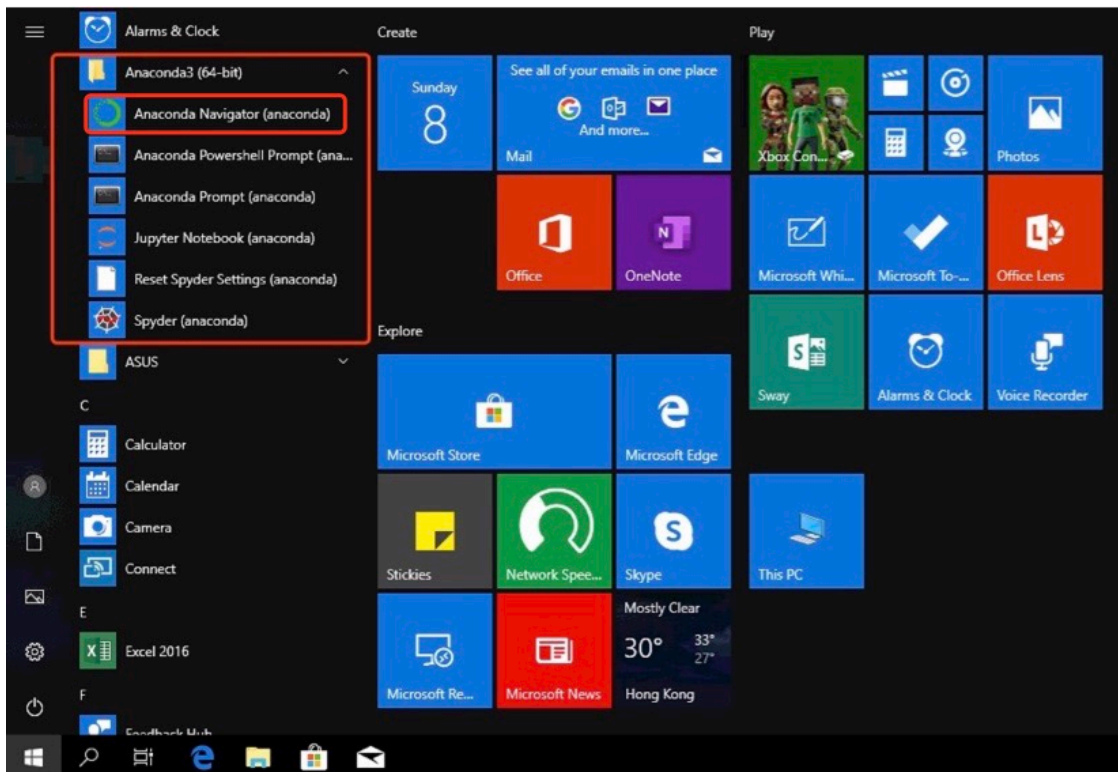
### Anaconda 2019.07 for Windows Installer

Python 3.7 version	Python 2.7 version
<a href="#">Download</a>	<a href="#">Download</a>
64-Bit Graphical Installer (486 MB)	64-Bit Graphical Installer (427 MB)
32-Bit Graphical Installer (418 MB)	32-Bit Graphical Installer (361 MB)

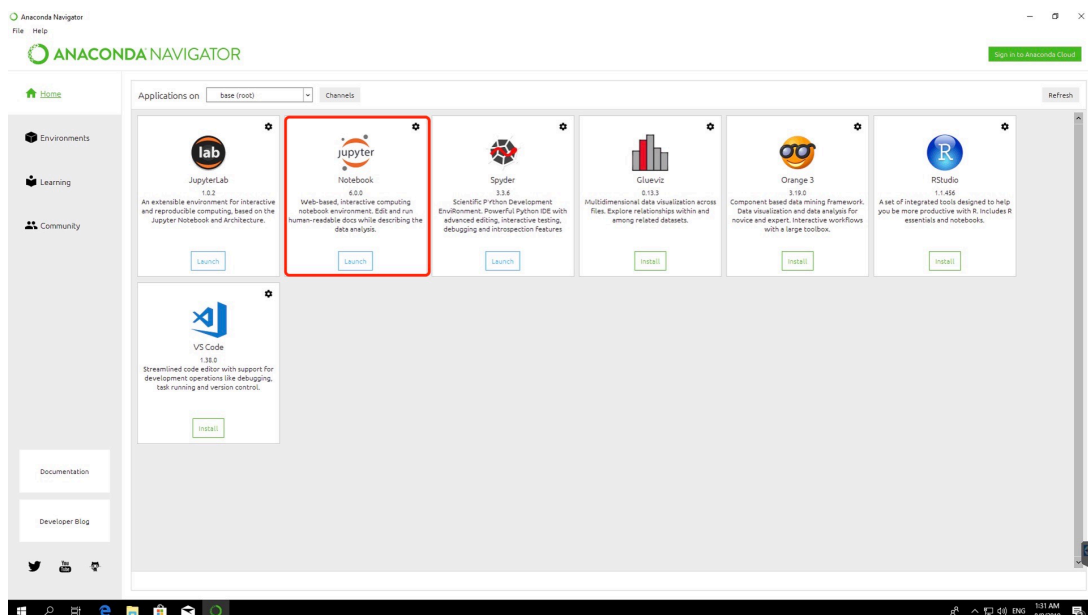
- Install the version of Anaconda which you downloaded, following the instructions on the download page.
- After you have installed the Jupyter Notebook on your computer, there are two methods (we provide here) you are able to run the notebook server.

### Method 1:

- Click *Anacoda Navigator (anaconda)* in the start menu (Windows):

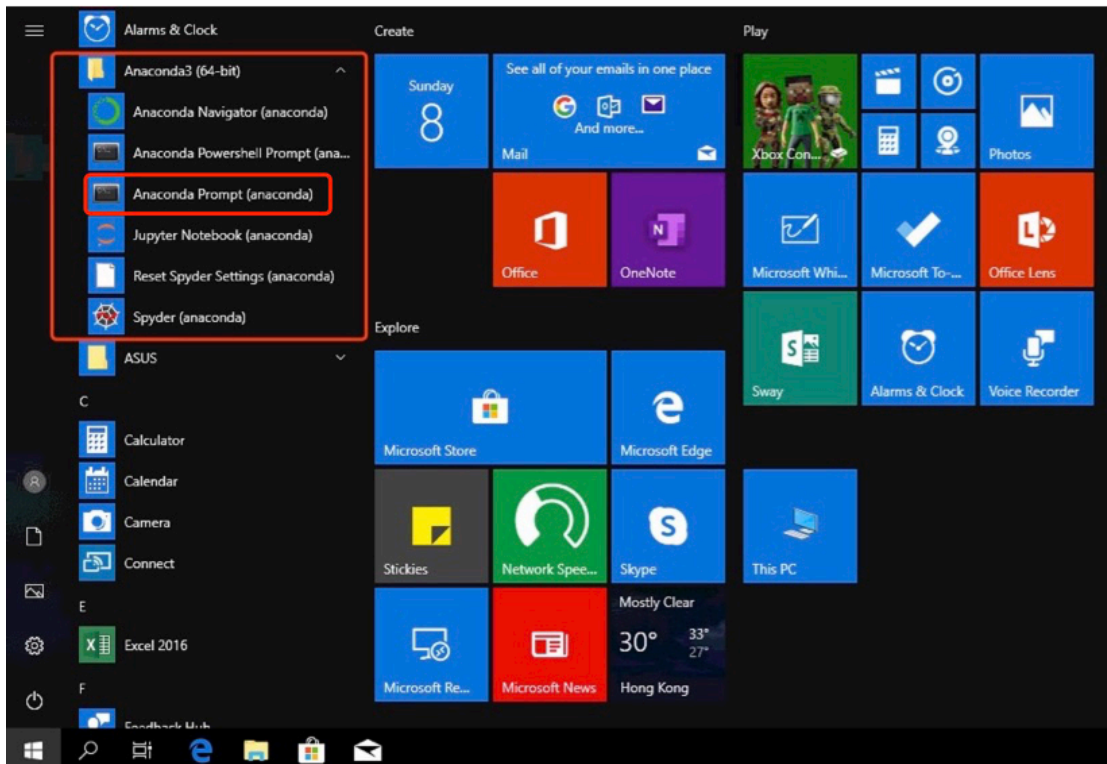


- Run a notebook by clicking *launch* button. A browser window should immediately pop up with the Jupyter Notebook interface.



## Method 2:

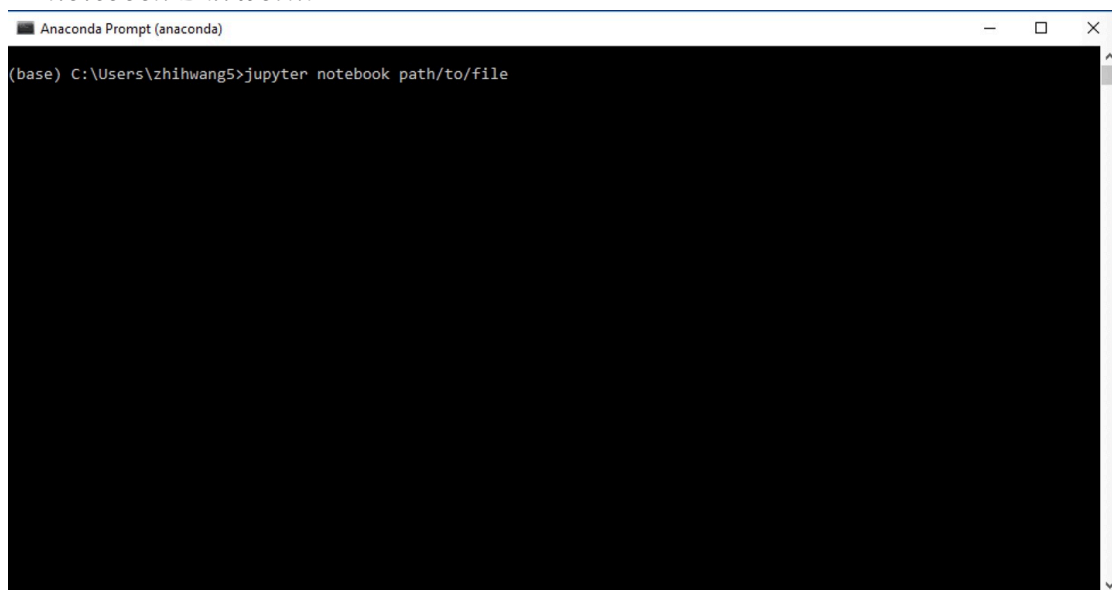
- Click the *Anaconda Prompt (anaconda)* in the start menu (Windows):



- Start the Jupyter Notebook server from the command line by running:

```
jupyter notebook path/to/file
```

for example, if you place your targeted file in the folder - "*D://work*", you can set *path/to/file* to *D://work*. Therefore the command will be: *jupyter notebook D://work*.



Some information about the notebook server will be printed in your terminal, including the URL of the web application.

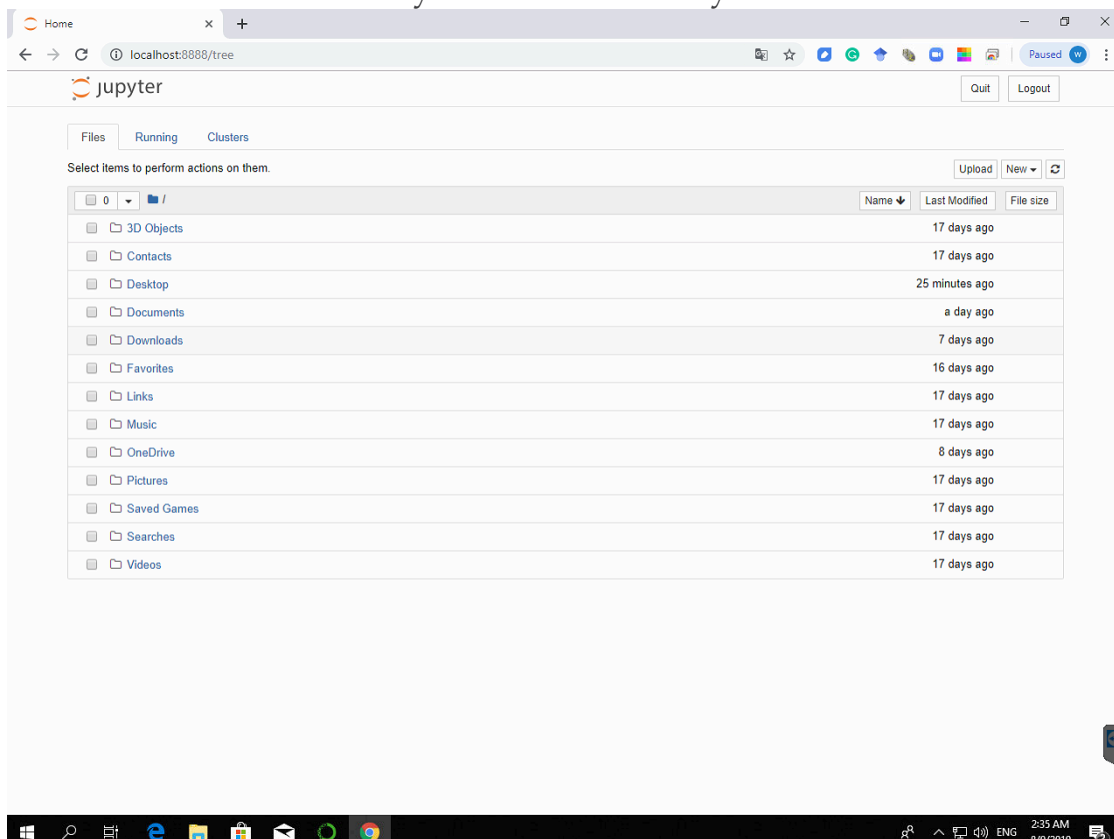
```
Anaconda Prompt (anaconda) - jupyter notebook D:/work

(base) C:\Users\zhihwang5>jupyter notebook D://work
[I 17:36:18.559 NotebookApp] The port 8888 is already in use, trying another port.
[I 17:36:18.594 NotebookApp] JupyterLab extension loaded from C:\software\anaconda\lib\site-packages\jupyterlab
[I 17:36:18.594 NotebookApp] JupyterLab application directory is C:\software\anaconda\share\jupyter\lab
[I 17:36:18.596 NotebookApp] Serving notebooks from local directory: D:\work
[I 17:36:18.597 NotebookApp] The Jupyter Notebook is running at:
[I 17:36:18.597 NotebookApp] http://localhost:8889/?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
[I 17:36:18.597 NotebookApp] or http://127.0.0.1:8889/?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
[I 17:36:18.597 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 17:36:18.655 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/zhihwang5/AppData/Roaming/jupyter/runtime/nbserver-4520-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
or http://127.0.0.1:8889/?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
[E 17:36:19.861 NotebookApp] Could not open static file ''
[W 17:36:19.885 NotebookApp] 404 GET /static/components/react/react-dom.production.min.js (::1) 4.99ms referer=http://lo
calhost:8889/tree?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
[W 17:36:20.071 NotebookApp] 404 GET /static/components/react/react-dom.production.min.js (::1) 1.00ms referer=http://lo
calhost:8889/tree?token=4eda241223d9fc0558c9dde2c64c31a6ad8ec433bf908eb5
```

- A default web browser to this URL will be opened at the same time.

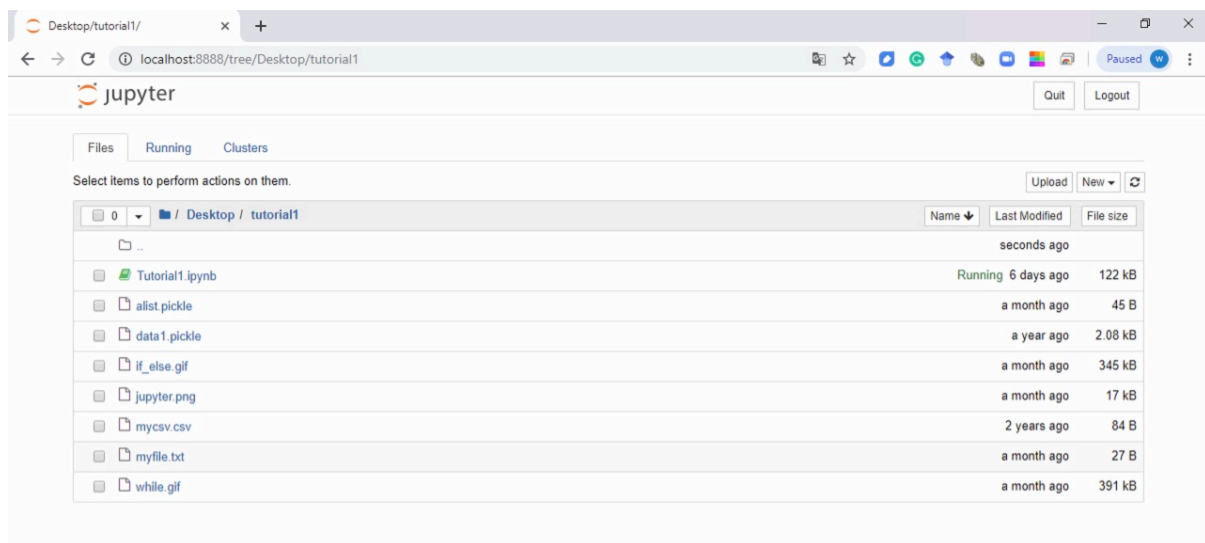
When the notebook opens in your browser, you will see the *Notebook Dashboard*, which will show a list of *the notebooks, files, and subdirectories* in the directory where the notebook server was started. Most of the time, you will wish to start a notebook server in the highest level directory containing notebooks. Often this will be your home directory.



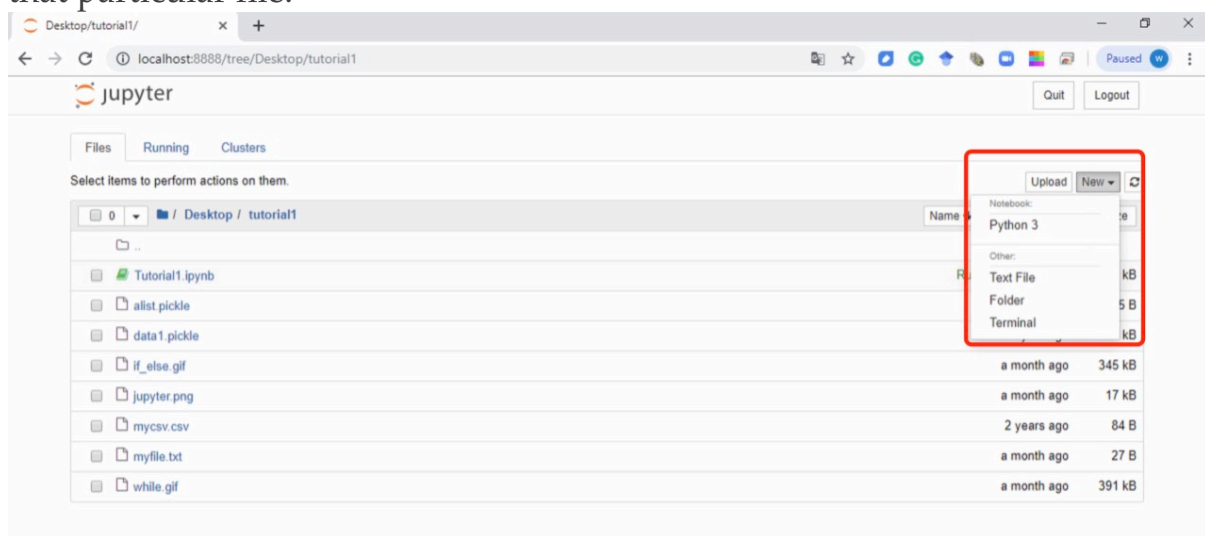
**Note:** If you are an experienced Python users, you can install Jupyter with pip, please refer to: *Installing Jupyter Notebook — Jupyter Documentation 4.1.1 alpha documentation* (<https://jupyter.readthedocs.io/en/latest/install.html#id4>, 08.09.2019).

## Jupyter Notebook Dashboard

If you succeed in launching a Jupyter Notebook Dashboard, all the files in your current directory will be listed by the notebook icon next to their name. Find Jupyter Notebook file you want to view in your files list and click it to view.



To create a new notebook, you can click *New* and select *Notebook - Python 3*. To use other Jupyter Notebooks on your system, click *Upload* and navigate to that particular file.



Currently running Notebooks will have a *green icon*, while non-running ones will be *grey*. If you want to find current status of all notebooks, you can click on the Running tab to see a list.

Desktop/tutorial1/

localhost:8888/tree/Desktop/tutorial1#running

jupyter

Quit Logout

Files Running Clusters

Currently running Jupyter processes

Terminals ▾

There are no terminals running.

Notebooks ▾

Desktop/tutorial1/Tutorial1.ipynb Python 3 Shutdown seconds ago